

## **The Acoustic Spectroscopy of Series Oligomeric Polyethers**

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In this work the acoustic spectra and elastoviscous properties of polyethyleneglycols, poly-tetramethyleneglycols, and telechelic polymers, formed on their basis are systematically investigated, as well as the calculation methods of thermodynamic characteristics of viscous flow and acoustic spectra in oligomers polyethers. The characteristics of modifiable influence of the length and the nature of end functional groups on the parameters of acoustic processes have been observed. The fact has established that molecular mechanisms rotational isomeric and structural relaxation processes. The calculations of their kinetic and thermodynamic parameters have been come out.